REMARKS

In the Office Action, the Examiner rejected claims 1-18 under § 102 as being anticipated

by USP 5,742,086 issued to Rostoker et al. (Rostoker). In this Response, Applicants have not

amended, deleted, or added any claims. Accordingly, claims 1-18 will be pending after entry of

this Response.

I. Provisional Double Patenting Rejection

The Examiner provisionally rejected claims 1-18 under the judicially created doctrine of

nonstatutory double patenting. Accompanying this Response is a Terminal Disclaimer that

disclaims, except as provided below, the terminal part of the statutory term of any patent granted

on the instant application, which would extend beyond the expiration date of the full statutory

term defined in 35 U.S.C. 154 to 156 and 173, as shortened by any terminal disclaimer filed prior

to the grant of the Applications numbered 09/732,181, 09/739,460, and 09/731,891.

Accompanying this Terminal Disclaimer are (1) a Chain of Title under 37 CFR 3.73(b)

identifying Cadence Design Systems, Inc. as the Assignee of the present application, and (2) a

Power of Attorney from Cadence Design Systems, Inc. identifying Mani Adeli as the attorney of

record for this case. The Chain of Title is accompanied by Assignments from the inventors of the

present application to Simplex Solutions, Inc. and a Certificate of Merger merging Simplex

Solutions, Inc. into Cadence Design Systems, Inc.

II. Claims 1-9

The Examiner rejected claims 1-9 under § 102 as being anticipated by Rostoker.

Applicants respectfully traverse this rejection.

-- 2 -- Attny Docket: SPLX.P0127

PTO Serial Number: 10/079,270

Claims 2-9 are dependent directly or indirectly on independent claim 1. Claim 1 recites a

method of computing placement costs for a placer that partitions a region of a circuit layout into

several sub-regions. This method identifies, for a set of sub-regions, a connection graph that

connects the set of sub-regions, where the connection graph has at least one edge that is at least

partially diagonal. The method then identifies a placement cost from an attribute of the

connection graph.

Applicants respectfully submit that Rostoker does not disclose teach, or even suggest

such a method. Specifically, Applicants respectfully submit that Rostoker does not disclose a

method for computing placement costs for a placer, which:

• for a set of sub-regions, identifies a connection graph that connects the set of sub-

regions, where the connection graph has at least one edge that is at least partially

diagonal; and

• identifies a placement cost from an attribute of the connection graph.

The Examiner identifies Figure 71 and column 59 of Rostoker as disclosing the

identification of a connection graph element of claim 1. However, as characterized by the

examiner, these passages of Rostoker disclose a "three directional/diagonal routing Steiner tree"

implemented during a routing operation. This routing operation as disclosed in Rostoker

transpires after a placement operation. Therefore, Rostoker does not disclose, teach or even

suggest the recited method of claim 1, which computes placement costs for a placer by

identifying a connection graph that connects a set of sub-regions and identifying a placement

cost from an attribute of the connection graph.

Attny Docket: SPLX.P0127 PTO Serial Number: 10/079,270 The Examiner identifies column 58, column 43 lines 22-30, column 44 lines 46+, and

column 45 lines 21-26 of Rostoker as disclosing the identification of a placement cost from an

attribute of the connection graph element of claim 1. However, these passages of Rostoker

disclose computing costs without reference to an attribute of a connection graph. These costs

disclosed in Rostoker are computed prior to the disclosure of the "three-directional/diagonal

routing Steiner tree" for which the Examiner identifies as a connection graph. Therefore,

Rostoker does not disclose, teach, or even suggest the recited method of claim 1, which computes

placement costs for a placer by identifying a placement cost from an attribute of a connection

graph.

Accordingly, Applicants respectfully submit that Rostoker does not render claim 1

unpatentable. As claims 2-9 are dependent on claim 1, Applicants respectfully submit that claims

2-9 are patentable over Rostoker for at least the same reasons. In view of the foregoing,

Applicants respectfully request reconsideration and withdrawal of the § 102 rejection of claims

1-9.

III. **Claims 10-18**

The Examiner rejected claims 10-18 under § 102 as being anticipated by Rostoker.

Applicants respectfully traverse this rejection.

Claim 10 is analogous to claim 1, except that claim 10 recites a program embedded in a

computer readable medium, whereas claim 1 recites a method. Accordingly, Applicants

respectfully submit that claim 10 is patentable over Rostoker for the same reasons as claim 1.

Moreover, as claims 11-18 are dependent on claim 10, Applicants respectfully submit that claims

11-19 are patentable over Rostoker for at least the same reasons. In view of the foregoing,

Attny Docket: SPLX.P0127 PTO Serial Number: 10/079,270 Applicants respectfully request reconsideration and withdrawal of the § 102 rejection of claims 10-18.

CONCLUSION

In view of the foregoing, it is submitted that all pending claims, namely claims 1-18, are in condition for allowance. Reconsideration of the rejections and objections is requested.

Allowance is earnestly solicited at the earliest possible date.

Respectfully submitted,

STANTIER, JOHANSEN & ADELI LLP

Dated: July 13, 2004

Mani Adeli Neg. No. 39,585

Stattler Johansen & Adeli LLP PO Box 51860 Palo Alto, CA 94303-0728

Phone: (650) 752-0990 ext.102

Fax: (650) 752-0995

Attny Docket: SPLX.P0127 PTO Serial Number: 10/079,270